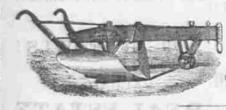


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THE UNDERSIGNED BEGS TO

Hawaiian Gazette.

TUESDAY, MARCH 30, 1886. THE ORIGIN OF THE RED GLOWS.

THIRD WARNER PRIZE ESSAY. SERENG E. BISHOP, HONOLULE, M. I. Waltham Watches at Reduced Prices served on the 28th day of August, 1883. observed on the 28th day of August, 1883.
They have continued with varying but diminshing intensity for more than two years. They
first appeared in great splendor along an Equaterial belt of 18 000 miles or more. They

take place during one hour or more before sunrise and sunset. They may be considered

Clouds not obscuring the view, the horizon where the sun has just set is corrupted by a bright silvery luster. Above this to a height of 30 deg. or 40 deg. a yellowish haze fills the western sky. Although seemingly opaque and dense, the presence in it of Venus and the creacent moon show it to be entirely transparent. This haze rapidly changes in color and extent, ranging through creatists wellow and olive to evanue and deep culiar green, while the changing colors of the greenish vellow and olive to orange and deep scarlet. As the dusk advances, orange and olive tints flush out on all sides of the sky, color sathers. The chief body of the most gorgeous sunsate to color sathers.

dark interval above the red. The stars begin above the dark space appears a repetition of the brange and olive hues. Seen against the night sky, these secondary reflections or afterglows

e sectingly more brilliant than the primary ics. Again the colors change and deepen to red, and after the stars are all out, and he earlier flame has sunk below the horizon, ami far later than any common twilight, a wast blood-red sheet covers the West. It has been seen rising as high as 20 deg. As it sinks and rests low on the horizon in the dark night-sky, it precisely simulates the appearance of a re-mote and immense conflagration, for which it has in many places been tnistaken. I have known our usual thirty minutes of twilight to be prolonged to ninety, before the last glow

disappeared.

In the dawn recur the same appearances, but in inverse order. In September, 1883, they were singularly impressive and even ter-rile, as the first low sullen incandescence rose and spread and glared among the stars, as if the very heavens were in confingration. Then as well as at nightfall a marked division occurs between the night-glow and that nearest to the sun. During the earlier weeks of the lisplay, the dark interval was extremely dis inct. One observer described it as a "black sow," (a) Another saw the shadow of the remote horizon sharply projected upon the under surface of the haze-campy, but with fine ser-rations, probably the shadows of platours of umuli. (b) Evidently at that early date the anopy of floating haze had a well defined un-

er surface. From the beginning the upper limit of the night-glow has always been indefinite, since is light was reflected to it from the broad surce of the first glow, while the latter showed clean shadow of the horizon from the sur self. In general it may be said that the itself. In general it may be said that the tropical displays of these glows at their birth during the first week in September as far surpassed the mild glows seen world-wide in November, as the plunging surges of a tempest surpass the tripping crests of a breeze. The entire dome of sky above and around seemed to heave with billows of lurid light, as the portentous masses of color poured out of the pellucid blue, while the west outlaned in broad conflagrations.

In September, during the day as well as after sunset, many portions of the haze-canopy were noticeable as having a wayy or rippled structure, (c) A conspicuous object when the sun is high has been from the first the opplessest silvery grow around the sun. This occupies a circle of 25 deg. radius or mare. The outer part develops a pinkish hue, which against the blue sky shows lilac or chocolate ints. These have a singular effect when seen through rifts of cloud, as Captain Penhallow saw them (d) on Sept. 18th, 1000 miles N. E of olulu. This ean-glow has been particu-v discussed by M. A. Corne, in the Comp-Rendus of Sept. 23, 1881. He remarks peclarization of the sun's rays. Prof. P. A.

photography of the Solar Corona.

The height of the main body of this haze in the atmosphere has been variously estimated at from 15 to 40 miles. The present writer as the result of much and early observation has two-thirds of the circumference of the globe indicated the presence of large quantities of authors vapor, (f) accompanied by other peculiar influences. Fresh fallen rain and snow

pave re-eatedly yielded a dust of microscopic particles possessing the same constitution as the fine ash-fall from Krakatoa. The most generally accepted theory of the source of this new matter in the sky attributes it to the great cruption of the crater of Kracates or Krakatao, in the Straits of Sunda, on the 27th of August, 1883, one day before the first defiuite record of Red Glowa, which were seen on the 28th at both Mauritius and the Seychelles, 3500 miles west of Krakatoa. Be-

fore considering the evidences in support of this theory, notice needs to be taken of two other hypotheses, which have been advocated. One of these assumes the meeting of our globe with some cosmic cloud of impalpable fust, which was arrested in the upper strata of the atmosphere The other hypothesis suposes the cosmic cloud to have been compo

his hare.

The latter hypothesis seems open to the oisuch cosmic cloud did approach the earth or or before August 28th, or since that time. The matter actually introduced into our atmosphere is brilliantly conspicuous in the sunlight. Yet we are asked to believe that a vast nebula of such matter approached unseen and enveloped the earth. In 1861 the tail of an immense and tenuous was the impinging matter that so traces of its presence were left behind. A cloud suf-

Another and most serious objection lies in it have found the one sole and indisputable the original narrow localization of this laze in an equatorial belt. It is difficult to conceive course. of a cosmical cloud possessing a mass adequate to the immease effects produced, which should

ume of cometary material immonsely exceeding the dimensions of the largest planet. The
actual localization of the first glows in the
tropics thus absolutely precludes reference to
cosmic sources, and compels us to seek a ter-

Many have felt that the protracted continuance of this haze in the air necessitates the supposition of renewed supplies from fresh cources, as if perhaps the earth were continuing to traverse successive regions of cosmic unit to traverse successive regions of cosmic wapors (which no one has seen.) Had there been but one original introduction of the haze, must it not long since have been precipitated and disappeared? But we have to consider how slow is the subsidence of even coarse.

We have absolutely and precisely traced how slow is the subsidence of even coarse, common dust, especially in currents of air.

The haze matter in question had probably 40 miles to fail. If only 20 miles, or 105,600 feet, it must fall 144 feet in a day to reach the quantity and to such height by having actually to the control of the control of

gradually extended with reduced brilliancy to
the Temperate zones, exciting the wonder of
Europe and the United States, in November, Enrope and the United States, in November, and its spot distinguished. At the altitude of the most conspicuous of these phenomena take place during one hour or more before sunrice and sunset. They may be considered searched in the west. In some cases the sunset glares immediately succeeded, while in as a great intensifying and prolongation of common twilight-sky reflections in case the sunset glares immediately succeeded, while in quence of a recent introduction into the higher regions of the atmosphere of some kind of finely divided matter which powerfully affects the sun's rays, especially the red. The usual order of changes is as follows:

Clouds not obscuring the view, the horizon where the sun has just set is constinied the same phenomenon. It seems in place here

olive tints finsh out on all sides of the say, especially in the East. The chief body of color gathers and deepens over the sansat rapidly developing the red. In from twenty to thirty minutes after sunset, deep scarlet has overpowered all other hues, flaming along to deg. of horizon, and 10 deg. of altitude. This rapidly sinks and intensifies. There is a dere interest below, the ted. The stars begin distance from Krakatoa is estimated in Eng. al above the red. The stars begin distance from Krakatoa is estimated in Eng.
While yet the color flames low, lish miles, the number of hours in transit and the velocity of the current calculated. The source of information is specified for each of the seventeen different localities," which were on vessels at sex in the Pacific At six of these localities, both the Green Sun

and the Red Glows were reported as having been seen on the same day. At four points only Red Glows were reported, and at even only Green suns. 288882 38 3F 58 XXXXXXXXXXXXXXXX 222-122-22-22-22-22 *E SA H BEREES

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इद्रम्भ स्थान स्या स्थान स् The most remarkable fact evidenced by this

points, successive from East to West, lying very near the Equator, beginning at the Sey-chelles Is. in the Indian Ocean, and running Forch has repeatedly discussed this sun-glow, which he has named the "Cercle de Bishop," (e) after the first observer of the phenomenon at Honolulu. Prof. Huggins found this glow putting an end to his previously successful photography of the Solar Corona.

It thus appears that the original baze cloud

an equalit of much and early observation has no doubt that in the early part of September, no part of its under surface was less than 30 or 40 miles above the ground. All estimates should be based upon the first reflections and not on the secondary glow. No decisive tests of the nature of this reflecting matter have been secured. The spectroscope has distinctly are probally viitated by the copions diffusion of the nature of the regular matter have been secured. The spectroscope has distinctly are probally viitated by the copions diffusion of valcanic make nine and a probably viitated by the copions diffusion of valcanic make nine and probably viitated by the copions diffusion of valcanic make nine and probably viitated by the copions diffusion of valcanic make nine and probably viitated by the copions diffusion of valcanic makes nine and probably viitated by the copions diffusion of valcanic makes nine and probably viitated by the copions diffusion of valcanic makes nine and probably valcanic makes nine probably nine pro volcanic smoke prior to the regular movemen of the upper stream.
It seems quite clear however, that an aver-

age velocity of about 90 miles an hour, during the first half of the course of this haze-stream, became reduced to about 60 miles in its later stages. These data appear to favor the con-clusion of Mr S. E.Bishop (i) that a stream of vapors was discharged over and upon the up-per surface of the atmosphere of the Indian Ocean by a powerful initial impulse, which drove it straight in a great circle independently of atmospheric currents, and that this

stream gradually suffered retardation as it descended into the atmosphere, finally consing over the Caroline Islands. Without necessarily accepting this writer's accepting those would be such an impulse would be generated by the rotation of the Earth, it Equatorial haze-stream and its attendant glows has been traced with positive certainty as far as the western side of the Indian Ocean, of hydrogen, which united with the oxygen of as far as the western side of the Indian Ocean, the atmosphere to form the aqueous vapor evidently constituting so considerable a part of ward of this our search is arrested by a vast pall of volcanic smoke proceeding from the

greatest cruption described in history, But if we stretch our line back through this obusually attended with active combustion, none of which was observed. Both hypotheses suffer from the total absence of evidence that any morning of August 27th. Projected aloft from this crater by a succession of colossal explosions, a vast dome or cone of volcanic smoke on that day covered a region of not less than 400 miles in diameter with absolute darkness for many hours, and spread a deep liant comet actually swept the earth. Yet so direction. From the summit of this imheight, the great Equatorial haze-stream ap ficiently dense to create the present haze, must in its approach have presented the aspect of a most compact and refulgent bedy. So he from being possibly unobserved, it must have terrified mankind.

The pears to have issued and sped westward around the globe. We have unquestionably traced it to its source, in the vapor-mass that refulled mankind. osmic nebula, but possessing reality, and with

This does not imply that the swift Equat-orial smoke-stream embodied the whole of not occupy such dimensions as to completely envelope the globe at orce, producing glows simultaneously all over the earth, not to consider the improbability that the course of such a dense little nebula after collision should precisely coincide with the equator. It must be remembered that stray concern or nebu.

Thus we find the ledger portion of the vapors which became slowly and irregularly diffused over the globe during the ensuing seventy days, were drifted from the broad vapor-mass after the special atteam had ceased.

Thus we find the Indian pennsula untouched by the narrow stream which must have passed mic space, since it possesses small mass and south of the Equator. But 14 days afterwards feeble centripetal force, necessarily assumes the haze arrived in full force, and produced immense volume and extreme attenuation, comsared with which this haze is solidity itself.
Ceylon and Southern India, shortly afterthe entire quantity of this peculiar matter
ward appearing in Aden and the Soudan. We
also find the glows at New Ireland 3200 miles
ally have been equivalent to many cubic
miles of solid matter, which represents a vol-

tent, not only belling the globe with flam skies as in September, but by November

round in two years. It seems improbable I done so, It is the objector's part to prove that these ultra-microscopic particles could lescend at one-tenth of such a velocity. (y) It is the objector's part to prove cens, on the contrary, that the finer particles a preliminary official report on the nature and f this matter will continue suspended and roduce their glows for many years to come.

Mr. R. D. M. Verbeck. (j) He makes an estimate of the contract of the

mate of the quantity of those solid ejects of Leaving these nebulous imaginings, let us pursue the plain if humble, historical method of inquiry. When and where were these phenomena first observed? Under what peculiar conditions and with what attendant circumstances did they appear? In what successions of time and place did they first occur, and to what actual point of origin on the earth's surface may they be traced?

Pursuing this indigenesable method of plays. pable dust. It would be easy to present con-siderations to show that the finer portion musface may they be traced?

Pursuing this indispensable method of physical investigation, we find that the earlier appearances of the sunsot glows were, as a rule, immediately preceded by a peculiar veiling and discoloration of the sun's disc, commonly termed the "Green Sun." While the sky was cloudless, or faintly obscured by an undefinable haze, the disc of the sun was described (h) as rulbing livid livid blush concern crossish.

such tenuous vapor and dust as have been floating in the upper other.

As to the height of the column of ejecta emitted from Krakatoa at its highest activity, some estimate may be formed from known facts. The heaviest threes were very precisely determined (£) to have occurred at 9.55 and 19.45 a.m. on August 27th. The latter one was immediately followed by a continuous fownpour of mud and ashes upon the Charles Bal, then 30 miles distant. (1) Seventy miles distant, trees were extensively shattered by the weight of wet ashes. (m) Batavia, 100 miles away, was covered three inches de-with white ashes during the hours of tot darkness following the greatest eruption. I seems impossible to find room for these fact on any estimate of the height of the cruptiv on any estimate of the neight of the coupling column as less than one hundred miles. It is true that light ashes might have great lateral diffussion from a column of far less height, but mud and wet ashes must have plunged quite the column of the column ned and wet ashes must have plunged quit of 30 to 70 miles must involve a vertical ascent of not less than one hundred.

not tess than one number.

The height supposed would have driven
to eruptive column entirely through the atcosphere and far above it, so as to deliver its contents over the surface of the atmosphere, to settle slowly down through its upper strata. That the great column did actually thus lift and rend asunder the mighty mass of the atsphere above the crater is made probab y the unique oscillations of the barometers, a series of atmospheric waves was sped three mes around the globe at the rate of 700 miles a bour. (π) The length of each undulation as one million meters, that of the lowest audible sound waves being 24 meters. Twenty rapidly oscillated between the 28th and the 30th inches. It is thus evident that in the vicinity of Krakatoa the upper layers of the atmosphere were swinging up and do-through a vertical distance of from ten twenty miles every fifteen minutes. Who could have done this less than an explosion driving clear through its entire depth?

As general evidences of the ultra-coloss character of the Krakatoa eruption may Bed Blankets. adduced the following: 1. The waves driven upon the coasts of Anjer and Merak thirty miles away were found to have exceeded 35 metres or 112 feet in height. (0) Over the entire Anjer plain, fifteen miles by five, the inundation had uprooted every tree, and coral blocks of from 20 to 50 tons in weight had been torn from the bed of the sea and borne inland two CENTRE RUGS or three miles, (p) 35,000 people perished those inundations. 2. The detonations of the eruption

ard throughout a circle whose radius is 1800 geographical miles, equal to one-fifteenth of the surface of the earth. (q) Yet the heavies could not be heard within a radius of 40 miles from the crater. The sounds must have pro-ceeded from tremendous rendings of the air a n immense height, whence the sounds were an immense begint, whence the sommis were casily spread to vast distances, while from localities beneath, the massive torrent of des-cending ejecta cut off the sounds like a wall. 3. Ashes fell at Singapore 835 miles N. West; at Buncalis 915 miles N. W.; at Keeling 1200 miles S. W.; (r) on the Australian co 1050 miles E. S. E.; on the Arabella 970 mi W. N. West. The entire area of ash-fall we officially estimated as at least 750,000 kil meters, (s) or as large as the Southern State east of the Mississippi. the collapse of the mountain on the morni

of the 27th, the eruptions became submarin the ocean waters rushed into the burni depths. Under the pressure of many miles of water the lava and the waters commingle and struggled with geyserlike discharges of augmenting violence, until finally there arose a continuous column of white hot water and Through the wide throat apparently three miles in diameter the vast column dro upwards, expanding and exploding as it flow, into steam and pumice, till reaching one hund red miles or more in height its mingled solids and liquids had exploded in the vacuum into

The sally ejecta as analyzed, were mainly glass in the form of pumice, together with the solid constituents of sea-water. (a) This vitreous matter being comminuted by the force of the explosions to ultra-microscopic fineness vast bulk of extreme tenuity and lightne above the atmosphere. Falling thence upon the upper strata of the atmosphere, and prepitating its courser dust, its finer port have continued suspended for more than two re likely to abide for many years to come.

From the beginning the white sun-glow has been very uniform, while the night glows have open quite irregular, although it is believed they have always been perceptible. In the Sorthern tropics there has been a marked in-rease of brilliancy and continuity during each f the two winters. Probably the haze is fistributed through the atmosphere in unequa and irregular drifts.

John Aitken's demonstrations of the neces sity of dust nuclei to the formation of ice spic ules in the atmosphere, (v) indicate that such ice particles probably play a prominent par in the glows. Not improbably they would be a larger quantity in the tropics during the son. Varying atmospheric conditions would also at all seasons vary the amount of con-

In conclusion the writer takes the oppoudy of the Krakatoa amoke-belt of Septer , 1883, and its dynamic conditions, ma-nish material aid in elucidating the stil ysterious problem of the Belts of the plane

Nature, Vol. 30, pp 10-14.

2. Nature 30, 12. 4. Nature 57, 140.

3. Nature 30, 13. 4. Nature 57, 140.

3. Nature 30, 14. Leisure hour, Sept. 1885, page 487.

3. Nature 30, 14. Leisure hour, Sept. 1885, page 60.

The history of the eruption shows that upon p. Leisure hour August 1885, page 506.

9. Nature 30, pp. 10.

1. Nature 30, pp. 10.

1. Nature 30, pp. 11.

Nature 30, p. 11.

Nature 30, p. 13.

Nature 30, p. 13. Nature, 29, p. 601. General Advertisements.

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